### STRUCTURAL NOTES

CORES OF PUBLICATIONS REFERENCED IN THESE GENERAL STRUCTURAL NOTES ARE AVAILABLE FOR REVIEW AT SOMEFER. CONTRACTORS UNFAMILIAR WITH THESE PUBLICATIONS MUST REVIEW THEM PRIOR TO CONSTRUCTION. GOVERNING CODE

## VIRGINA BUILDING CODE - 2012 IREFERENCES ISC 2012 & ASCE-7 2010).

COL	ON COME	2		
NOOF LONG:		LOND		
	A.	MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SHOW LOAD (PR)	20	PSP**
	6.	ROOF MEMBRANE & INSULATION	2	PSF
	C.	METAL DECK	2	PSF
	D.	FRANNG LOAD	3	PSF
	€.	CELING	5	PSF
	F.	SFRINKLERS	2	PSF
	G.	DUCTS, LIGHTS, MISCELLANEOUS MECHANICAL	4	PSF
	H.	FUTURE SOLAR PANEL LOADING	5	PEF
		TOTAL LOAD	40	PSF MIN

A.	LIVE LOAD	80 PSF
8.	SLAB AND DECK	37 PSF
c.	FRAMING LOAD	5 PSF
D.	CEBLING	2 PSF
Ę.	SPRINKLERS	2 PSF
F.	DUCTS LIGHTS MISC MECHANICAL	4 PSF
	TOTAL LOAD	130 PSF MR

Α.	BASIC WIND SPIGED	-	115 MPH		
θ.	RISK CATEGORY		6		
Ċ.	WIND EXPOSURE	=	B (ALL WIND	EXRECTIONS:	
D.	INTERNAL PRESSURE COEFFICIENT, GOLI		+6.180.18		
£.	DESIGN PRESSURES FOR EXTERIOR COMPONENT:	AND CLA	ADDING ITEMS	NOY DESIGNED I	BY THE ENGINE
	RECORD: SPECIALTY ENGINEER SHALL DETERMINE	WINDLO	ADS UNDER 9	OVERNING BUILDI	ING CODE, AND

SEISI	SEISMIC LOAD:			
A	SEISMIC IMPORTANCE FACTOR, Ic		1.0	
8.	MAPPED SPECTRAL RESPONSE			
	ACCELERATION AT SHORT PERIODS S.		0.099	
G.	MAPPED SPECTRAL RESPONSE			
	ACCELERATION AT 1 SEC. PERIOD, 6.		0.049	
D.	RISK CATEGORY		6	
€.	SPECIFIAL RESPONSE COEFFICIENT Str.		0.105	
f.	SPECTRAL RESPONSE COEFFICIENT S.	-	0.078	
G.	SITE CLASS		0	
н.	BASIC STRUCTURAL SYSTEM	-	BEARING!	

# A INTERORMAL SALO-AMPRIONS THAT EXCERCISE FETT INVIGINAT. A PSF INDEROCTAL LOAD, ETRAL NATION - 100 FSF -

CONTRACTOR SHALL SHADE ENTIRE STRUCTURE AS REQUIRED TO MARITANI STABLITY UNTIL COMPLETE AND FUNCTIONNIG AS THE DESIGNED UNIT. ENGOISER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OF PROCEDURES OF CONSTRUCTION RELECTED BY CONTRACTOR.

- ANCHOR RODS/BOLTS AND FOUNDATION DOWELS SHALL NOT SE REPAIRED, REPLACED OR FIELD/MODIFIED WITHOUTHE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

THE LATERAL LOAD RESISTING SYSTEM CONSISTS OF THE FOLLOWING ELEMENTS: A METAL ROOF DECK DIAPHRAGM THROUGHOUT

## JACENT RETAIL

AN ALLOWANCE FOR ACJACENT RETAIL ON THE EAST SIDE OF THE BUILDING HAS BEEN MADE. SEE DRAWINGS FOR ASSUMED RETAIL EXTENTS AND ASSUMED LOADING COMDITION AT ZERO LOT LINE FOUNDATION WALL.

## FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS DESCRIBED IN THE CEDITECHNICAL ENGINEERS SERVERT BY ENGINEERING & TESTING SERVICES, DATED MARCH 3, 2015. THE CEDITECHNICAL ENGINEERS REPORT IS AVAILABLE UPON REQUEST.

AUTHORITION CHARLES AND THE MONTH A 2 ATTO THE REQUIREMENTAL ENGINEERS REPORT & MARKER LIVEN TO THE AUTHORITION SHALL EXPAN ELECTRONIC SHALL EXPANSIVE SHALL EX

LATERAL BOIL PRESSURE USED FOR DESIGN OF RETAINING WALLS: 45 PCF EQUIVALENT FLUID PRESSURE, TRANSQUAR DISTRIBUTION.

ALL PLL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL CONSULTANT. FILL SHALL BE BROUGHT TO A MOISTURE CONTEXT WITHIN TWO PERCENTAGE POINTS OF THE OPTIMUM MONSTHRE VALUE AND COMPMCTED TO AT LEAST SEN OF MONIMUM ROY DESIGN.

BACKENL AGAINST EXTERIOR FACE OF SHALLOW WALL FOUNDATIONS SHALL BE CLAYEY MATERIAL COMPACTED TO 99% STANDARD PROCTOR DENSITY.

BACKPIL AGAINST INTERIOR FACE OF SHALLOW WALL FOUNDATIONS SHALL BE CLAYEY MATERIAL COMPACTED IN 1915'S TO 95% STANDARD PROCTOR DESISTY OR CONCRETE WITH A COMPRESSIVE STRENGTH OF F. = 500 PB.

BACKFILL AGAINST LOW GRADE FACE OF RETAINING TYPE WALLS SHALL BE CLAYEY MATERIAL COMPACTED TO 25% STANDARD PROCTOR DEWSITY.

D. FIUL BELOW FLOOR SLABS:

PROVIDE 6" OF COMPACTED GRANULAR MATERIAL BELOW FLOOR SLAI

BACKELL TRENCHES UNDER FOOTINGS AND WITHIN 18 INCHES OF BOTTOM OF FOOTINGS WITH LEAN CONCRETE TO THE BOTTOM OF FOOTING ELEVATION.

BACKFILL TREVICHES EXCAVATED UNDER FOOTINGS AND MORE THAN 18 INCHES BELOW BOTTOM OF FOOTINGS WITH RILL MATCRIAL APPROVED BY DEOTECHNICAL ENGINEER.

BACKFILL TRENCHES EXCAVATED UNDER EXISTING POOTINGS WITH LEAN CONCRETE TO THE BOTTON OF POOTING ELEVATION.

ALL AREAS WITHIN THE FOOTFRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST DE FREE OF ANY WE SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB. SEAL UTRITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED CLAYEY BACKFILL OR & CONCRETE TO CREATE A DAM TO PREVENT ENTRY OF WATER.

UTILITY TRENCHES PARALLEL TO FOOTINGS AND WITH PIPES BELOW THE BOTTOL LOCATED BO THAT THE SLOPE BETWEEN THE PIPE INVERT ELEVATION AND THE BOMINIMUM OF VENDEZULATION AND THE BOMINIMUM OF VENDEZULATION OF VENTE AND THE BOMINIMUM OF VENDEZULATION OF VENTE.

WELDED WIRE REINFORCEMENT: ASTM A 1064, FLAT SHEETS ONLY.

FLY ASH: ASTM C615, TYPE F CR C. WHEN USED, FLY ASH-TO-TOTAL CEMENTIFICUS RATIO SHALL SE (EN MININEM, WHEN USED) IN INTERCOR SLASS ON METAL DECK, FLY ASH-TO-TOTAL CEMENTIFICUS RATIO SHALL BE 2014 MAYKING).

GROUND GRANULATED BUAST FURNACE SLAG: ASTIN CHIS. TOTAL GROUND GRANULATED BLAST FURNACE SLAG TO-TOTAL CEMENTIFICUS NATIO SHALL NOT EXCLED 30N MAXIMUM.

FLY ASH, NATURAL POZZOLANS, SILICA FUME, OR GROUND GRANULATED BLAST FURNACE SLAG; WHEN EXPOSED TO DECORG CHEMICALS, LIMIT THE MAXIMUM WEIGHT TO THE PERCENTAGES OF THE TOTAL WEIGHT OF CREMITHTOUSE MATERIALS GOVERN HITABLE \$2.7% OF ACT 101.

WATER REDUCING ADMIXTURE: ASTM C494.

CHLORIDE CONTENT OF CONCRETE. LIMIT TOTAL CHLORIDE ION CONTENT TO AMOUNT INDICATED IN TABLE 42.27.4 OF ALI 301 (EXPOSURE CLASS OUTNIESS NOTED OTHERWISE), ADMICTURES CONTAINING CHLORIDE ARE NOT FERMITTEED IN REPRESENDED MICRORETE CONCRETE CONTAINING METALS.

FOUR PRINCIPAL OF A PROPERTY OF A REPORT OF A PER PROPERTY OF A SUMP A BALLETON OF A PER PROPERTY OF A

SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF ADMIXTURES AND AFTER THE ADDITION OF ADMIXTURES REINFORCING BARS SHALL HAVE CLEAR COVER AS MOXCATED ON THE DRAWNINGS. WHERE NOT INDICATED, PROVIDE WIRMWING CLEAR COVER PER ACI-138.

HORIZONTAL BARS #6 AND SMALLER WITH MORE THAN 12" OF CONCRETE BELOW: 64 BAS DAMETER HORIZONTAL BARS 95 AND SMALLER WITH LESS THAN 12" OF CONCRETE BELOW, AND ALL OTHER BARS - 50 BAR DAMETERS

HORIZONTAL SARS WF AND LARGER WITH JESS THAN 12" OF CONCRETE BELOW, AND ALL OTHER BARS - 82 BAR DAMETERS

AT CORNERS AND INTERSECTIONS OF FOOTINGS, WALLS AND GRADE BEAMS, PROVIDE BENY BARS OF ECKAL SIZE AND AT NAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR INTO ABUTTING FOOTING, WALL OR GRADE BEAM THE ELEVATED CONCRETE SLAB ON METAL DECK SHALL BE PLACED IN A MANNER TO ACHEVE A UNIFORM SLAB THICKNESS. THE STEEL FLOOR FRAMING RUB NOT BEEN DESIGNED TO SUPPORT THE WEIGHT OF ANY ADDITIONAL CONCRETE DUE TO DESIGN ADDITIONAL CONCRETE DUE TO DESIGN ADDITIONAL.

MACHINE TROWEL FINSH FLOOR SLAB AND CURE USING "CURE AND SEAL" TYPE CURING COMPOUND MEETING ASTMICTS IS. VOC COMPLIANT, 29% MINIMAN SOURCE COMPOUND MEETING ASTMICTS IS. VOC COMPLIANT, 29% MINIMAN SOURCE COMPOUND.

AND ACTRICE ASSED CURING COMPOUND. 15. FLOOR SLAB-ON-GRADE SHALL CONFORM YO SURFACE PROFILE YOLERANCES FER ASYM E-1156, ACI 117 AND AS SPECIFIED IN THE RECICEN SPECIFICATIONS.

SEE ARCHITECTURAL DRAWNIGS AND SPEUFICATIONS FOR WAPUR BARRIER REQUIREMENTS. VAPOR BARRIER, WHERE REQUIRED, SHALL BETRACED OVER COMPACTED GRANULAR SUBBASE. AT SLAB AND WALL OPENING CORNERS AND REENTRANT CORNERS, PROVIDE (1) MS BAR IN EACH FACE PARALLEL TO EACH EDGE EXTENDING A MINIMUM OF 20° PAST EDGE OF OPENING. THIS STEEL MAY BE OMITTED IF TYPICAL WALL STEEL MAY BE OMITTED IF TYPICAL WALL STEEL.

LAF WELDED WINE REINFORGEMENT MINIMUM 1 FOR LISPAGE PLUS Z.

CONSTRUCTION JOINTS IN SLASS ON GROUND MAY BE LOCATED AT ANY CONTRACTION JOINT LOCATION. SEE DRAWINGS FOR TYPICAL DETAILS. WHERE SRITTLE FLOOR PRISHES ARE TO BE APPLIED TO FLOOR SLABS, COORDINATE OWNTH FLOOR FINISH JOINT LOCATIONS AND ARCHITECT.

PROVIDE CONTRACTIONS CHIEFTECTION JOINTS OF CONCRETE GALLS AT A MANAGEM SINCE NO OF TWICE THE HEIGHT OF MANY A 1470 CREET IN AN WORLD CHIEF CHIE

CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY CONTED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.

POWDER DRIVER FASTEMER SHALL BE MANUFACTURED BY NATI AND BISTALLED AT THE SPACING SHOWN ON THE DRAWNIGS INSTALL FER MANUFACTURER'S RECOMMENDATIONS SUBSTITUTES MAY BE CONSISTED SHOWN AND AMMINISTRATIVES OF THE MAD CONSISTED SHOWN AND AND ASSESSED AS PROPER ON A PRIOR TO MISTALLATION. PROVIDE PASTEMENT ON ASSESSED AND SHOWN AS A STATE AS A MANUFACTURER OF MAY PRIOR TO MISTALLATION.

A. FOR FASTERING LIGHT GAGE METAL FRAMING TO STEEL: TYPE X-U NAIL, 0.197 DIAMETER, QUALIFIED PER CIC-ES ESR-2269. FASTENER LENGTH SHALL BE AS REQUIRED FOR MINIMUM SHANK PENETRATION THROUGH STEEL.

FOR FASTENING LIGHT GAGE METAL FRAMING TO CONCRETE OR MAGONRY: "TYPE X-U NAIL, 0.157" DIAMETER, 1 M. MINIMUM EMBEDMENT, QUALIFIED PER ICCLES EDRIZZIO.

ANCHORAGE TO CONCRETE: HILTI "HIT RE 300-YY EPOXY, INSTALL PER MANUFACTURER'S RECOMMENDATIONS SUBSTITUTES MAY BE CONSIDERED: SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION. HOLES MAY BE CHAMONO CORD OR DRILLED WITH CONVENTIONAL HAMMER DRILL. HOLES SHALL BE BRUSHED AND BLOWN. FREE OF ALL DELETERIOUS MATERIAL IN ACCORDANCE WITH MANUFACTURER'S RECOMMERCIATIONS SECTIOR RESTALLATION OF ADDRESSME

 STEEL THREADED ROD ANCHORS SHALL BE HILTI "HAS-E" STANDARD RODS SIZE AND EMBEDMENT SHALL BE AS RODCATED ON DRAWINGS. ANCHORAGE TO SOLID GROUTED CONCRETE MASONRY HIGTS: HILT: "HIT HY 70", SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.

DRILL HOLES WITH A CARBIDE TIPPED DRSL BIT AND CONVENTIONAL HAMMER DRILL CORE DRILLING IS NOT ACCEPTABLE HOLES TO BE BRUSHED AND BLOWN FREE OF ALL DELETERIOUS MATERIAL IN ACCORDANCE WITH MATURACTURER'S RECOMMENDATIONS BEFORE RISTALLATION OF ADDRESSY.

STEEL THREADED ROD ANCHORG SHALL BE HILT! "HAS-E" RODG, SIZE AND EMBEDMENT SHALL BE AS INDICATED ON GRAMMOS.

CONTRACTOR SHALL VERIFY THAT THE SHELF 11FE OF THE ADHESIVE HAS NOT BEEN EXCENDED AND A STORY

RY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SI URBB" (ACL 320,14/9CE 6/TM9 6/22), EXCEPT AS MODIFIED BY THE REQUIREM ENTS

COMPRESSIVE STRENGTH SHALL BE DETERMINED FOR EACH TYPE OF M

SUBMITTALS SHALL BE MADE FOR THE FOLLOWING:

CONCRETE MASONRY: 1'x = 2000 PSI AT 28 DAYS.

PORTLAND CEMENT-LIME MORTAR:

REINFORCING STEEL: ASTW A615, ASTM A706, OR ASTM A996, 60 KSI YIELD.

COLUMN TO MANDERS AND REAL PROPERTY OF MORTHAN AND INDICE.

LIGHTED Y MANDERS CHILD AND AND AND AND OFF MORTHAN AND INDICE.

LARGE METHANDRIAN CHILDREN OF MACCHINE WITH SHILL MACRIMEN SERVILLIAMA ELEMBERTS.

LARGE METHANDRIAN CHILDREN CHILDREN CHILDREN SERVILLIAMA ELEMBERTS.

ANT RESPECTATION CHILDREN, CONSTRUCTION INDICE ON COMPLETED MAGNETY STRUCTURAL.

THE THIRD PROPERTY CHILD MORTHAN CHILDREN CHILDREN STRUCTURAL.

MICHAEL CONSTRUCTION.

WASTARD CONSTRUCTION.

AND PROVINCIAN CHILDREN CHILDREN STRUCTURAL.

CHILDREN SERVILLIAMA.

OBSERVATION RECORDS, IF DONE OTHER THAN BY STRUCTURAL ENGINEER, SHALL BE IMMSDIATELY FORWARDED TO STRUCTURAL ENGINEER AFTER EACH SITE VISIT.

MORTAR PROPORTIONS MUST BE ADCURATELY MEASURED PROR TO MOXING. ADD DEMONT TO MOX IN FULL BAD QUANTITIES, MEASURED SAID IN BOX WITH VOLUME OF ONE CUBBY FOOT AS OFTEN AS INSECSIONARY TO MAINTAIN CONSISTENT PROPORTIONS AND AT LEAST ONCE GUAY AND LEVERY FULLOWS OF MORIMA. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SPECIFICATIONS OF FIRE RATED MASONRY

RUNNING SOND PATTERN SHALL BE USED FOR ALL MASONRY WORK UNLESS OTHERWISE NOTE:

PROVIDE MOVEMENT (CONTROL AND EXPANSION) JOINTS IN WALLS WHERE INDICATED ON ARCHITECTURAL DRAWINGS. BOND BEAMS SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS UNITED OTHERWISE.

MOVEMENT JOINTS IN CONCRETE BLOCK: SASH BLOCK UNIT WITH PREFORMED SHEAR KEY, CALLIK BOTH FACES. ALTERNATE DETAILS FOR CONTROL JOINTS MAY BE ACCEPTABLE - SUBMIT DETAILS FOR APPROVAL. MOVEMENT JOINTS IN BRICK: 3/8" WIDE CLEAN JOINT FILLED WITH EXPANSION JOINT MATERIAL PER ASTM D1056, CLASS RE 41, CAULK EXTERIOR FACE. PROVIDE BUILDING PAPER BOND BREAK BELOW LINTEL BEARING ADJACENT TO CONTROL JOINTS.

GROUT ALL CELLS BELOW GRADE SOLID.

PROVIDE REINFORCING BAR SPUCES AS SPECIFIED IN THE FOLLOWING TABLE. BAR SPLICE COUPLERS MAY BE CONSIDERED AS A SUBSTITUTE SUBMIT MANUFACTURER'S DATA PRICE TO INSTALLATION.

GAR SIZE	LAP SPLICE
ges.	28"
#5	32"
AG	39"
	47

ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO ARC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND PRODES, CATEST ECTION.

STRUCTURAL STEE PARENCING SHALL PARTICIPATE IN THE ARC QUALITY CERTIFICATION PROGRAM, AND SHALL BE DECIMABLED AN SPECESTIFICATION PARTICIPATED THAT ON THE CONTRIBUTION OF THE ARCHITECTURAL SHALL BE RECEIVED AND RESPONSE A COLUMN TO SELECT THAT THE CONTRIBUTION OF THE ARCHITECTURAL SHALL BE RECEIVED AND THE ARCHITECTURAL SHAL

FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDED CONNECTIONS ARE INDICATED ON THE STRUCTURAL DRAWNINGS

PLATES AND ROLLED SHAPES OTHER THAN W-SHAPES, UNLESS NOTED: ASTMI-TUBULAR SHAPES (HSS SQUARE AND RECTANGULAR): ASTMIASOD, GRADE B.

BOLTS: ASTM A325-N, 3/4" DIAMETER UNLESS NOTED.

ANCHOR RODS: ARTM AND OR ARTM #1554 MIN FV = 26 KG

NON-SHRINK NON-METALLIC GROUT: CRD-C-621 AND ASTM C1107 FOR INTERIOR AND INTERIOR A

OR SHALL SUBMIT SHOP DRAININGS FOR REVIEW BY ENGINEER. FABRICATION SHALL NOT BEGIN PRIOR TO MAING APPROVAL BY ENGINEER. ACTURER SHALL DESIGN THE JOISTS AND JOIST GIRDERS FOR A NET UPUET AS SHOWN ON ROOF FRAMING ST MANUFACTURER SHALL PROVIDE ADDITIONAL BRIDGING AS REQUIRED TO BRACE JOISTS AND GIRDERS INCLUDING.

WELD EACH SIDE OF ALL LIN-SERIES JOISTS TO SUPPORTING STEEL WITH 2 INCHES OF 1/4 INCH FILLET WELD.

WELD EACH SIDE OF JOST GIRDERS TO SUPPORTING STEEL WITH 2 WICHES OF 1ALIHON FILLET WELD. JOIST GIRDERS SHALL HAVE (2) IT DIAMETER AGES ERECTION BOLTS. PLACE ADDITIONAL X-BROGING AT THE END OF EACH HORIZONTAL BRIDGING RUN IN LAST SPACE BETWEEN JOISTS, EXCEPT WHERE HORIZONTAL BROGING RUNS TERMINATE AT MASOINFY OR CONCRETE WALLS. WHERE BRIDGING RUNS TERMINATE AT MASOINFY OR CONCRETE WALLS MORIZONTAL BRIDGING SHALL BE ANCHORIZED TO WALL.

NO MODIFICATION THAT AFFECTS THE STRENGTH OF A JOIST OR JOIST GIRDER SHALL BE MADE WITHOUT THE APPROVA OF THE PROJECT STRUCTURAL ENGINEER OF RECORD. WHERE JUSTS DO NOT CONNECT DIRECTLY TO THE COLLING CAP PLATE, AT THE JUSTS CLOSEST TO BACH COLLING, PROVIDE DRAGONAL LICKYCHIS, ANGLE SHALL SE WILLDED TO TOP OF COLLING OR TO SOTTOM FLANGE OF SEAM AND TO THE FROM THE CHORD FANGE, POWER OF JUSTS WHITE JUSCH OF NEW PLACET LEACH SHALL SHALL BE SUPPLIED BY THE FROM THE LICKY STEEL READY OF JUSTS AND THE SHALL SHALL BE SUPPLIED BY THE PROVINCE AND STEEL READY.

EXTEND BOTTOM CHORD OF ALL JOIST GIRDERS AND ALL JOISTS AT OR NEAREST COLUMN LOCATIONS TO LAP WITH STABILIZER PLATE. WHERE STEEL JOISTS AT OR MEAR COLUMNS SPAN MORE THAN 60 FEET, THE JOISTS SHALL BE SET IN TAKDEM WITH ALL SRIDGING INSTALLED.

UNLESS NOTED OTHERWISE, K-SERIES JOISTS SHALL HAVE 2 X" DEEP SEATS, AND LH-SERIES JOISTS SHALL HAVE 5" DEEP SEATS, PROVIDE MATCHING HEIGHT SEATS ON SHORT SPAN JOISTS WHICH HAVE COMMON BEARING WITH LONG SPAN JUISTS. ANN TRICK

THE DESIGN, FABRICATION, AND ERECTION OF ALL STEEL DECK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY ENGINEER. FABRICATION SHALL NOT BEGIN PROOF TO SHOP DRAWING APPROVAL BY EXCHIBER.

A. ROOF DECK. SEE PLAN AND METAL DECK SCHEDULE FOR SIZE, GAGE, MIN FY, AND REQUIRED SUPPORT FASTEMERS AND SIDELAP FASTENERS. PAINT WITH STANDARD SHOP COAT UNLESS NOTED OTSRHWISE ON DRAWNIGS.

DECK FOR CONCRETE FORM: SEE PLAN AND METAL DECK SCHEDULE FOR SIZE, GAGE, MNI Py, AND REQUIRED SUPPORT FASTENERS AND SIDELAP FASTENERS. GALVANIZED COATING CONFORMING TO ASTM ASS GRO. SELF DRILLING SCREWS (SDS): HEX WASHER HEAD SELF-DRILLING TAPPING SCREWS (ASTM 0.1513)
MANUFACTURED FROM CARBON STEEL (ASTM ASTO, MO GRADE (0.18). ZINC PLATING SHALL MEET MINIMUM
CORROSSON RESISTANCE REQUIREMENTS OF ASTM FINE.

CONNECT METAL DECK TO STRUCTURAL MEMBERS, INCLUDING PERMETER ANGLES. MINIMUM METAL DECK END BEARING ON SUPPORTS = 1 1/2".

AMERICAM IRON AND STEEL INSTITUTE (ALIS.) "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS". LATEST EDITION.

STRUCTURAL FRAMING MEMBERS 45 MILS (16 GAGE; & : IGNTER: ASTM A1003 & CS65,  $F_p$  MINIMUM = 55 KSE, GRI GALVANIZED CONTRIG.

COLD-FORMED STEEL STUDS FOR BRICK VEHEER BACKUP 43 MILS (18 GAGE) MISIMUM THICKNESS, GRE-GALVARIZED CONTING.

ABL OR THALLES VARIES READ SIZE THE LITTE THE PRINCE CODE OF CREATE CREATE ANALYSIS CREATE CR

VERTICAL EVYAGE SLIDE CLIPS FOR MONLONDERARMO WALLS. "VERTICLIS SLIS 18 MILS 14 GAGE) MAN.
O KS. MANUPATURES OF THE STEEL NETWORK. NO. BISTALL PER MANUFACTURES RECOMMENDANIONS. SUBSTITUTES MAY BE LONISCENED, SUBMIT MANUFACTURENS DATA PHICH TO MISTALLATION.

VERTICAL KOMERY-ASSISTED CLIPS FOR KICH LONDSEARING WALLS: "VERTICALS SIZE MILE (14 GAGE) MOIL SO KIS, MANUFACTURED BY THE STEEL NETWORK, INC. INSTALL PER MANUFACTURERS RECOMMERCATIONS. SUBSTITUTES MAY BE CONSIDERED. SUBMIT MANUFACTURERS DATA PRIOR TO

MOMENT CUPS: STIFFCLIP CL 88 MIL 114 GAGES (H) MANUFACTURED BY THE STEEL NETWORK, PAC, INSTALL PER MANUFACTURER'S RECOMMENDATIONS: SUBSTITUTES MAY BE CONSIDERED, SUBMIT MANUFACTURER'S DATA PRIVED TO INSTALL STICKS.

CUT ALL FRAMPIG COMPONENTS SO THEY FIT SQUARELY TOGETHER. STUDS MUST BEAR MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTEMED. BRACE WALL DURING FERCION TO PREYENT PROCEING AND DISTORTION.

FASTENING OF COMPONENTS SHALL BE WITH SE

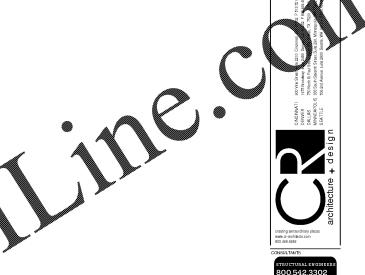
PERIOD CHRECTOR FOR SIZE E PLACEMENT OF FOURANTION REBILDICING STEEL.

PERIOD CHRECTOR FOR SIZE E PLACEMENT OF FOURANTION REBILDICING STEEL.

CONTROLLS SECTION FOR SAMPHAR FREE CONCRETE AND PROFOSHING SUMP AND ARE
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PERIODIC INSPECTION OF WALL REINFORCING SIZE AND PLACEMENT PRIOR TO GROUTING, PERIODIC INSPECTION OF PROTECTION OF MACOURY DURING HOT AND COLD WEATHER AS DEFINED PERIODIC INSPECTION OF GROUT SPACE IS CLEAN PERIODIC INSPECTION OF GROUTING TECHNIQUES.





schaefer

Ln LINTEL MARK (BPn) BASE PL MARK COLUMN MARK Kn KEYNOTE MARK STEP T/FTG DR DECK MARK - ELEVATION INDICATION JdN STEEL JOIST DESIGNATION
(TidUd) Jd - JOIST DEPTH
(INCHES)
N - LH OR K JOIST TYPE
TId - TOTAL LOAD (PLF)
LId - LIVELDAD (PLF)

n COLUMN LINE DESIGNATION n FACE OF BUILDING n FTG OR GRADE BEAM MARK SHEET 85.1 SHEET 85. Win MASONRY VERTICAL WALL SHEET \$5.1 REINFORCING MARK SEE PLAN

PROJECT TITLE Kroger Store R543

ISSUE DATE 11/01/2018 SHEET TITLE STRUCTURAL GENERAL

S0.1

NOTES

1050 W. Mercury Blvd Hampton, VA COMMISSION NO. 518344